

Reply to Office Action dated January 18, 2008

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of driving a plasma display panel, comprising:
setting [[the]]a number of sustaining pulses in response to an average picture level;

and

setting a period of each sustaining pulse in proportion to said average picture level, the period of each sustaining pulse including a high width and a low width, the sustaining pulse having a wider period as the average picture level becomes higher, the wider period of the sustaining pulse being obtained by increasing a duration of the high width of the sustaining pulse in proportion to the average picture level and maintaining a duration of the low width of the sustaining pulse.

2. (Previously Presented) The method as claimed in claim 1, wherein said setting the number of sustaining pulses includes:

setting the number of sustaining pulses in inverse proportion to the average picture level.

3. (Canceled)

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4. (Currently Amended) A method of driving a plasma display panel, comprising:

setting [[the]]a number of sustaining pulses in response to an average picture level;

and

setting a period of each sustaining pulse in proportion to said average picture level, the period of each sustaining pulse including a high width and a low width, the sustaining pulse having a wider period as the average picture level becomes higher, the wider period being obtained by increasing a duration of the low width of the sustaining pulse in proportion to the average picture level and maintaining a duration of the high width of the sustaining pulse.

5. (Canceled)

6. (Previously Presented) The method as claimed in claim 1, wherein a maximum period of the sustaining pulse is wider, by approximately $0.5\mu s$ to $10\mu s$, than a minimum period of the sustaining pulse.

7. (Currently Amended) The method as claimed in claim 1, wherein said period of the sustaining pulse is changed in at least a partial region of said average picture level.

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8. (Previously Presented) The method as claimed in claim 7, further comprising:
setting a minimum limit frequency at more than a desired average picture level
such that said period of the sustaining pulse is limited to less than a certain width.

9. (Currently Amended) The method as claimed in claim 8, wherein said minimum
limit frequency is set such that a maximum period of the sustaining pulse is widened wider, by
approximately 0.5 μ s to 10 μ s, than a minimum period of the sustaining pulse.

10. (Previously Presented) The method as claimed in claim 7, further comprising:
setting a maximum limit frequency at less than a desired average picture level such
that said period of the sustaining pulse is limited to more than a certain width.

11. (Canceled)

12. (Currently Amended) A method of driving a plasma display panel, comprising:
setting [[the]]a number of sustaining pulses in response to an average picture level;
and
setting a high width of the sustaining pulse in proportion to said average picture
level and maintaining a duration of the low width of the sustaining pulse, the high width being
set such that the sustaining pulse has a wider period as the average picture level becomes higher.

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13. (Previously Presented) The method as claimed in claim 12, wherein said high width of the sustaining pulse is changed in at least a partial region of said average picture level.

14. (Currently Amended) A method of driving a plasma display panel, comprising:
setting [[the]]a number of sustaining pulses in response to an average picture level;

and

setting a low width of the sustaining pulse in proportion to said average picture level and maintaining a duration of the high width of the sustaining pulse, the low width being set such that the sustaining pulse has a wider period as the average picture level becomes higher.

15. (Previously Presented) The method as claimed in claim 14, wherein said low width of the sustaining pulse is changed in at least a partial region of said average picture level.

16. (Previously Presented) A driving apparatus for a plasma display panel, comprising:
average picture level means for setting an average picture level corresponding to a video data; and

period setting means for setting a period of a sustaining pulse in such a manner to be in proportion to said average picture level set by the average picture level means, the sustaining pulse including a high width and a low width, the sustaining pulse having a wider period as the average picture level becomes higher, the wider period being obtained by

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increasing a duration of the high width of the sustaining pulse in proportion to the average picture level and by maintaining a duration of the low width of the sustaining pulse.

17. (Canceled)

18. (Previously Presented) A driving apparatus for a plasma display panel, comprising:
average picture level means for setting an average picture level corresponding to a video data; and

period setting means for setting a period of a sustaining pulse in such a manner to be in proportion to said average picture level set by the average picture level means, the sustaining pulse including a high width and a low width, the sustaining pulse having a wider period as the average picture level becomes higher, the wider period being obtained by increasing a duration of the low width of the sustaining pulse and by maintaining a duration of the high width of the sustaining pulse, wherein said period setting means sets the low width of the sustaining pulse in proportion to said average picture level.

19. (Canceled)

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20. (Original) The driving apparatus as claimed in claim 16, further comprising:
limit value setting means for setting at least one of a maximum limit value capable of widening a period of the sustaining pulse and a minimum limit value capable of narrowing said period of the sustaining pulse.
21. (Presently Presented) The driving apparatus as claimed in claim 20, wherein said period setting means receives at least one of said maximum limit value and said minimum limit value to control said period of the sustaining pulse.
22. (Currently Amended) The method according to claim 1, wherein said period of the sustaining pulse is increased in a stepwise manner in accordance with the average picture level as said average picture level goes from a lower level ~~into-to~~ a higher level.
23. (Previously Presented) The method according to claim 12, where setting the high width occurs without setting the low width of the sustaining pulse in proportion to said average picture level.
24. (Previously Presented) The method according to claim 14, where setting the low width occurs without setting the high width of the sustaining pulse in proportion to said average picture level.